Urban Cultivator

The Commercial Cultivator User Manual Version 3.0

Please read the information inside this Instruction Booklet carefully and keep it as a reference manual.

These symbols are used to highlight important information:

Warnings!

Information and best practices.

Environmental information.

If you are unclear about any aspect of information within please contact Urban Cultivator using support@urbancultivator.net or by calling our toll free number at +1 877 352 0490 available seven days a week.

Urban Cultivator

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Safety Precautions

Urban Cultivator cares about your plants and safety. We want you to be familiar with the following safety instructions.

It is important that this instruction manual remain with the Commercial Cultivator appliance so that new owners can also learn about the product and relevant safety precautions.

You must carefully read through this instruction manual before installing and using the Commercial Cultivator.

If you are unclear about any aspect of information within please contact Urban Cultivator using support@urbancultivator.net or telephone our toll free number +1 877 352 0490 available seven days a week.

Child Safety

- This appliance is designed to be operated by adults.
- The water from your Commercial Cultivator is not for drinking.
- Keep your Seeds, Nutrients and Growing Mediums in a safe, dry storage area.

The Cultivator's Control Panel has a Child Safety Lock. Refer to the Control Panel Table for more information.

Safety Precautions In Daily Use

Contaminated items and/ or garbage must not be present in the Commercial Cultivator.

- Keep the door closed when not working with the Cultivator.
- Do not remove the grow trays when the machine is watering. Refer to the Control Panel table for instructions on controlling the watering & lighting schedules.
- Only use products that have been designed to be used with the Commercial Cultivator.
- Do not sit or stand on the open door or grow trays.
- Always unplug the power cord from the outlet and disconnect the water mains when the Cultivator is not in use. The pH sensor should also be placed back into its case.
- The Commercial Cultivator should be serviced by a licensed professional.
- Use genuine spare parts and supplies that have been provided by Urban Cultivator.
- Any attempts to fix the Commercial Cultivator without an authorised professional can be dangerous.
- Do not place any items on top of the Commercial Cultivator.
- Be careful when removing the Grow Tray's that can weight up to 100 pounds when fully loaded with soil, plants and water. The Cultivator has two slide out safety mechanisms.

Whenever you take a Grow Tray out be careful of standing water. It can take up to ten minutes for the Grow Tray to drain after a watering cycle.

The Cultivator may tip dangerously forward when removing fully loaded Grow Trays from the top two levels. The Reservoir should be full with water to avoid this potential tipping hazard. Please secure the Cultivator using the strap and fixing provided. Refer to the Installation Instructions.

Dispensing of this product correctly helps the environment.

Password Protection 1821

The Cultivators [1.Setup Menu] is password protected.

- When prompted to Enter Password, type **1821** then [Enter].
- Press [Status] to return to the home screen.
- To change or customize your password, go to [7. Set Password] under [1.Setup Menu]

Urban Cultivator

Describing How The Cultivator Works

The Commercial Cultivator provides a self-contained growing environment for herbs and greens. Lights imitate the sun's rays and an irrigation system delivers water and/ or nutrients from the reservoir to the plants. The automated system provides everything for the plants at the correct times and measures so that your herbs and greens grow all year round.

We have pre-programmed the Cultivator for an average growing situation, but you can customize to fit your environment. Please call us 7 days a week or visit our website for more details.

1 Full Spectrum Lighting System

Customisable Lighting Schedules, Removable Lights Above Each Grow Tray.

2 Digital Feeding System

With pH Control And Nutrient Monitoring,

95 Litre Reservoir, 3/8" NPT Female Connection To City Water In & Drain Out.

3 Grow Levels & Removable Grow Trays

Four Grow Flats Per Shelf

Sixteen Grow Flats In Total

Grow Level 1

Most Suitable For Incubation

Grow Level 2

Most Suitable For Young To Teenage Plants

Grow Level 3

Most Suitable For Teenage To Mature Plants

Grow Level 4

Most Suitable For Mature Plants

4 Centre Parting Out Swinging Doors

Left Door With Sealing Gasket And Recessed Pull Handle.

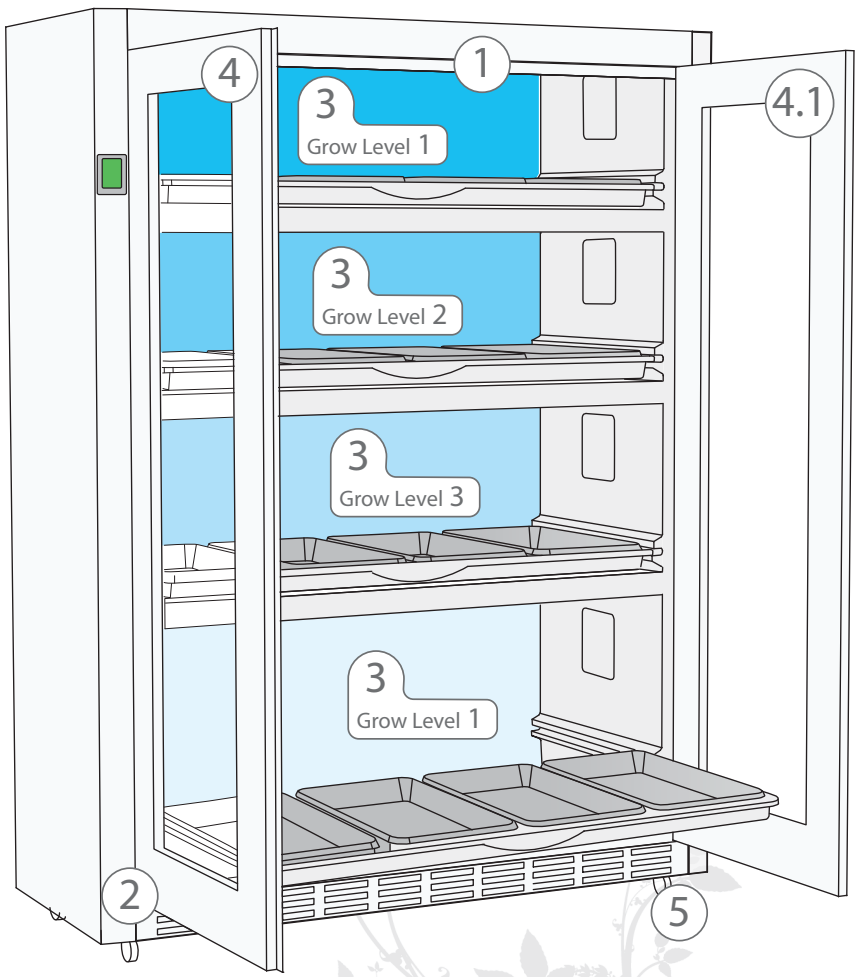
4.1 Right Door With The Sealing Gasket And Recessed Pull Handle.

5 Mobility

Four Heavy Duty Castor Wheels

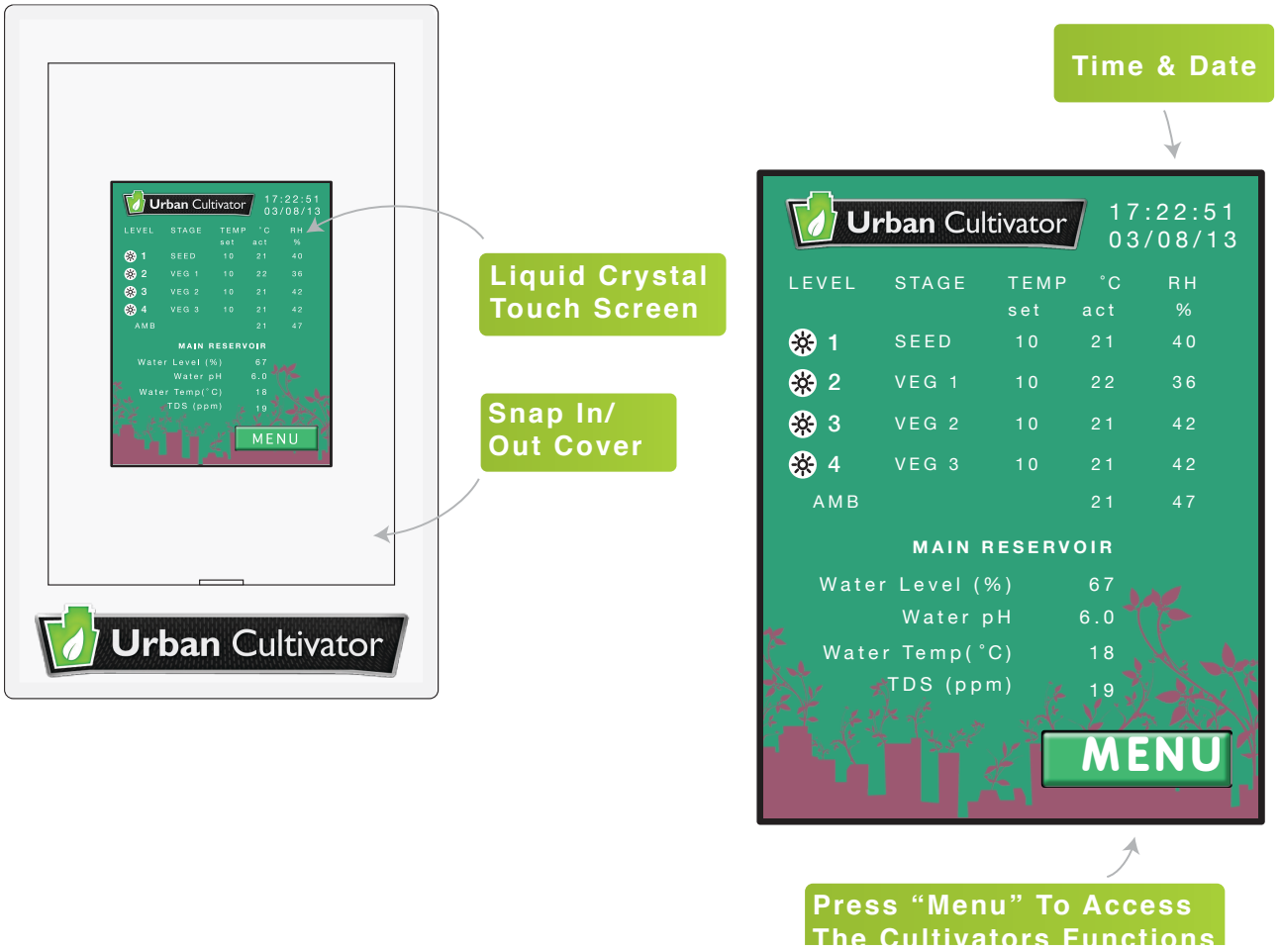
Two Lockable Swivel Castors At The Front

Two In-Line Castors At The Rear



The Touch Screen

The liquid crystal touch screen enables you to control the Cultivator's functions and allows the Cultivator to communicate watering, lighting, temperature, relative humidity and nutrient data back to you. Below is an illustration and table describing each function and their corresponding options.



Password Protection

The Cultivators **1.Setup Menu** is password protected.

- When prompted to Enter Password, type **1821** then **Enter**.
- Press **Status** to return to the home screen.
- To change or customize your password, go to **7. Set Password** under **1.Setup Menu**

The Cultivators Default Growing Conditions

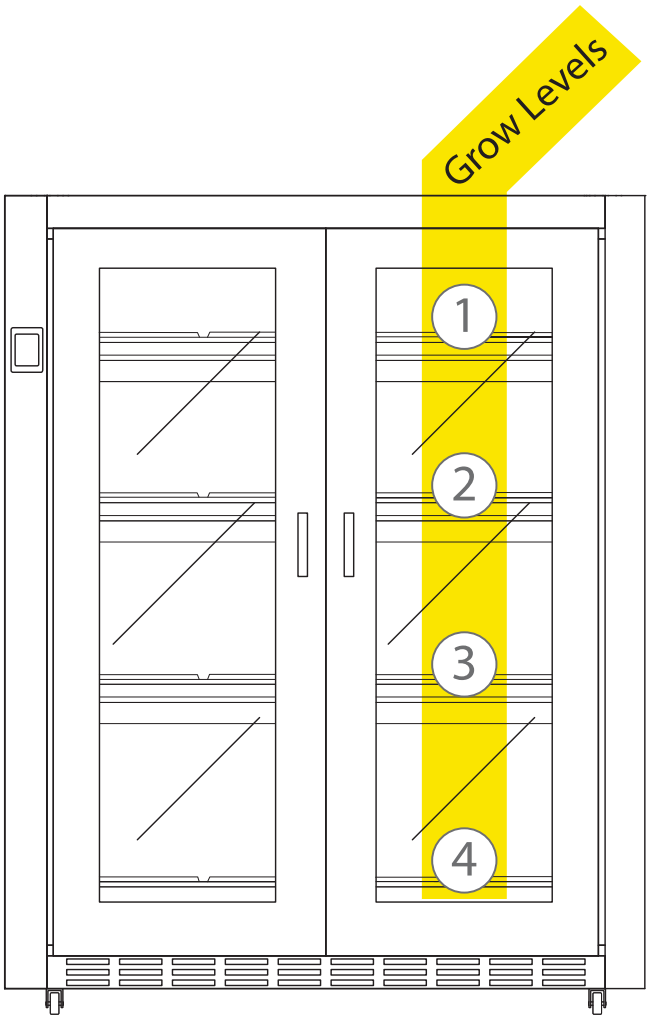
The Cultivators default grow settings are appropriate for growing all the herbs and micro-greens listed on our "Planting, Growing & Cultivation Table" on page 21. Advanced users may want to customise these settings by referring to the "Customising The Growing Conditions For Each Level" section on page 19.

Grow Level 1	
Set Temperature (C°) (F°)	24C° 75F°
Water Schedule	1 Per 4 Days
Water Time (mins)	10
Light Schedule	18 On/ 6 Off
Lights On Time (All Levels)	08:00

Grow Level 2	
Set Temperature (C°) (F°)	22C° 72F°
Water Schedule	1 Per 3 Days
Water Time (mins)	10
Light Schedule	18 On/ 6 Off
Lights On Time (All Levels)	08:00

Grow Level 3	
Set Temperature (C°) (F°)	20C° 68F°
Water Schedule	1 Per 3 Days
Water Time (mins)	10
Light Schedule	18 On/ 6 Off
Lights On Time (All Levels)	08:00

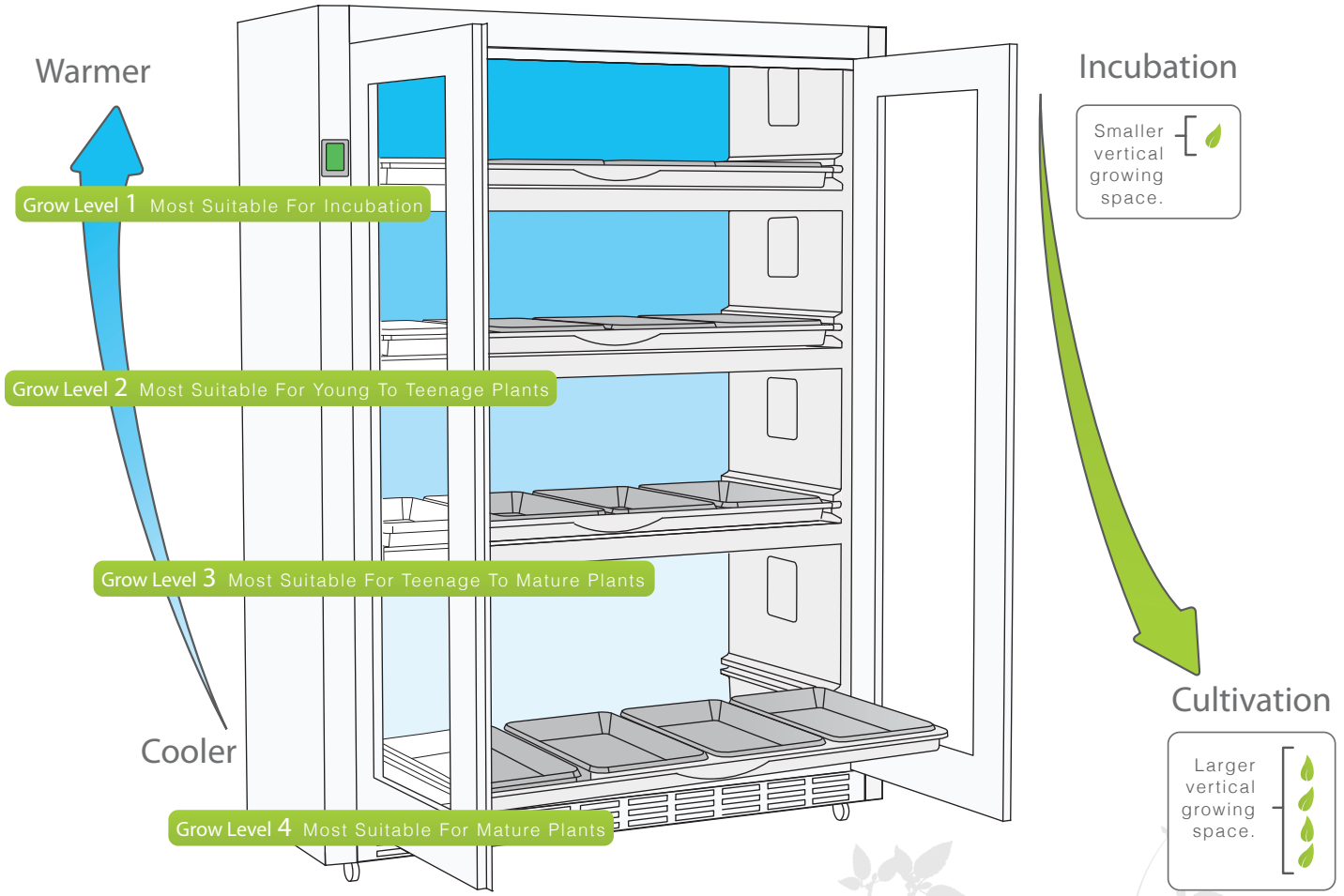
Grow Level 4	
Set Temperature (C°) (F°)	18C° 64F°
Water Schedule	1 Per 2 Days
Water Time (mins)	10
Light Schedule	18 On/ 6 Off
Lights On Time (All Levels)	08:00



Growing And Cultivation Cycles

The Cultivator is designed to operate warmer on the top grow level (Grow Level 1) & cooler on the bottom (Grow Level 4). Germinating is recommended on the top levels where the plants can benefit from warmer temperatures. There is more vertical space to grow taller plants on the lower grow shelves than on the upper grow shelves.

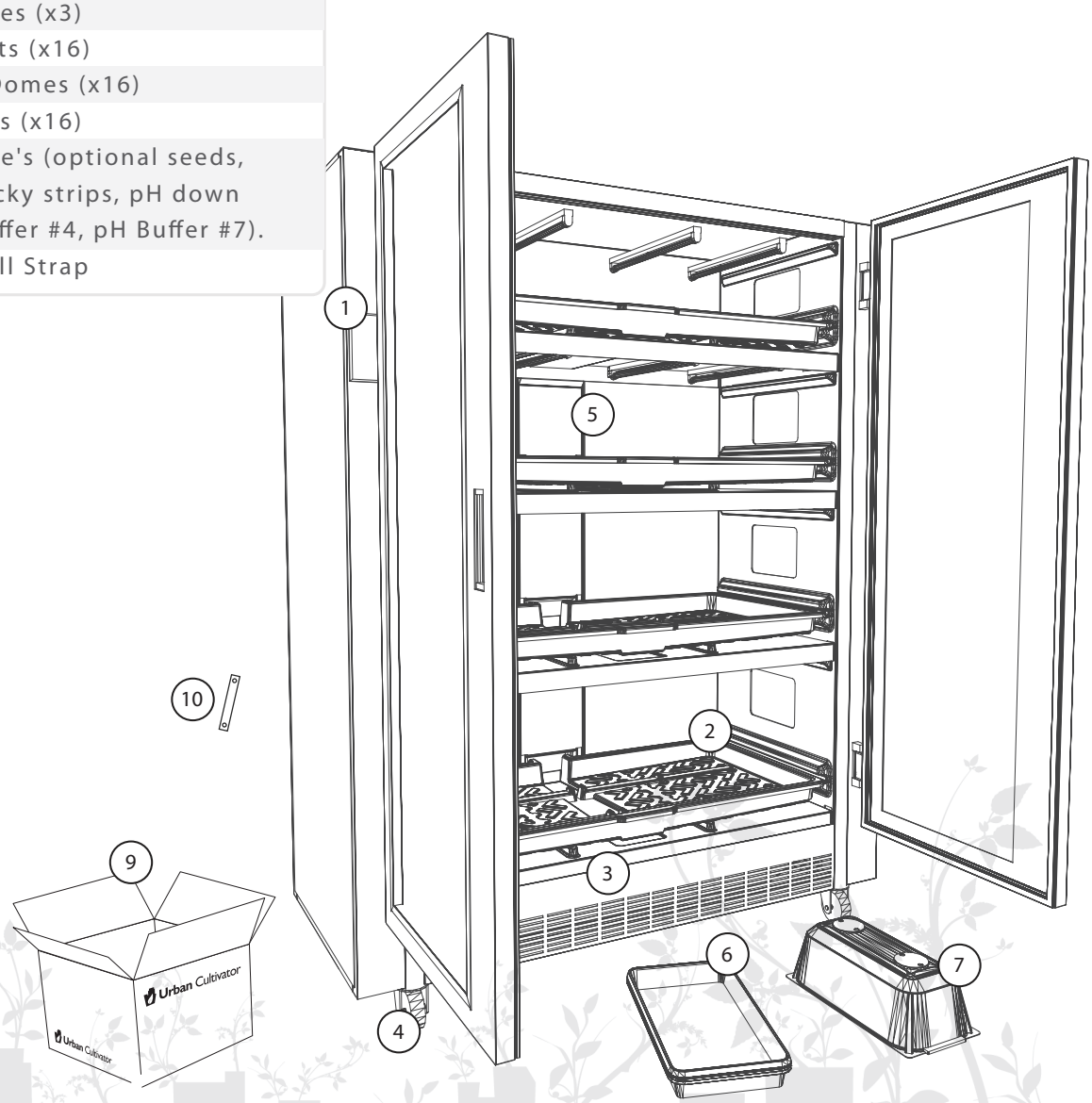
Once plants develop they can be moved down as they get bigger and flourish under cooler conditions.


Warmer
Incubation
Smaller vertical growing space.
Grow Level 1 Most Suitable For Incubation
Grow Level 2 Most Suitable For Young To Teenage Plants
Grow Level 3 Most Suitable For Teenage To Mature Plants
Cooler
Grow Level 4 Most Suitable For Mature Plants
Cultivation
Larger vertical growing space.

Hardware & Accessory Check List

Please check that all the components for your Commercial Cultivator are accounted for and that none have been damaged in shipping. Please refer to the Checklist provided.

Component Names
1. Touch Screen Control
2. Grow Tray's (x4)
3. Reservoir Cover
4. Lockable Castor Wheels (Front Only) (x2)
5. Splash Plates (x3)
6. Grow Inserts (x16)
7. Humidity Domes (x16)
8. Grow Lights (x16)
9. Consumable's (optional seeds, nutrients, sticky strips, pH down bottle, pH Buffer #4, pH Buffer #7).
10. Safety Wall Strap



Check the Commercial Cultivator for any shipping damage. Never connect or start growing with a damaged machine. Please contact us at +1 877 352 0490 or e mail support@urbancultivator.net if your Commercial Cultivator is damaged.

Installation Instructions

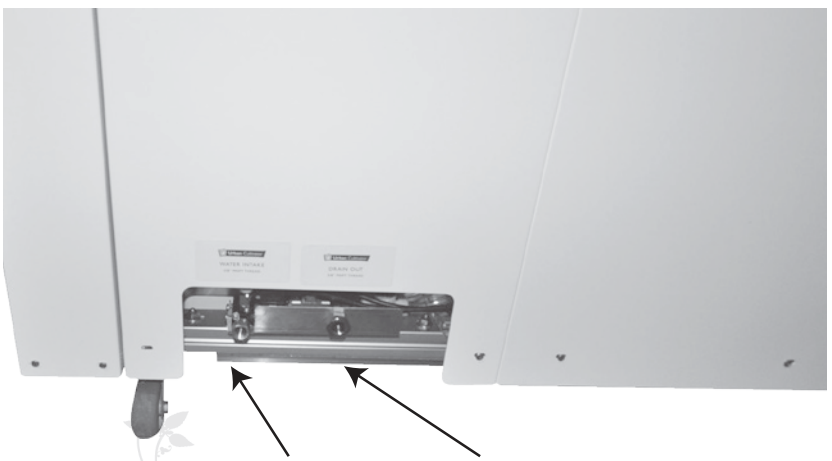
All plumbing and electrical work should be done by a certified professional. To successfully install the Cultivator you need to;

- Positioned the Cultivator on level ground so that the water inside flows evenly and lock the front two castor wheel brakes so the unit doesn't move when the doors and grow trays are operated.
- Leave at least 3' 0" at the front of the Cultivator for the doors, trays and yourself.
- Allow a 12" ventilation gap from the top of the Cultivator to the ceiling.
- Connect the city water supply and city drain to the 3/8" NPT female fittings at the back left of the Cultivator. See the photograph below. Neither connection can be more than 10' away and 4' up from ground level.
- The 120/240v electrical outlet should be within 6 feet away from the Cultivator.

Pipes which have not been in regular use should be cleaned with running water before connecting the Commercial Cultivator.

Make sure that the water inlet hose is not twisted, crushed, entangled or leaking in any way. Do not use connection hoses that have been used previously by other appliances.

Attach your Cultivator to the wall to ensure no tipping.



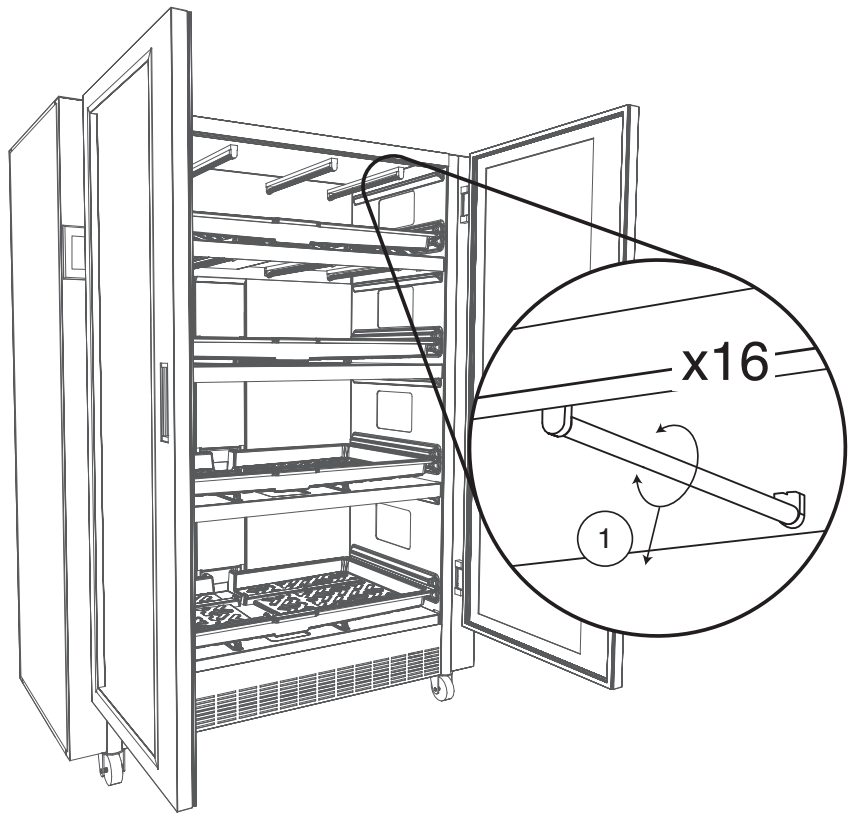
Your Room Environment

The Commercial Cultivator has been designed to work inside a well ventilated commercial space. Ideally the ambient room temperature should be 68 to 72 degrees Fahrenheit (20 to 22 degrees Celsius), and relative humidity between 40% to 80%.

Installing The Lights

The sixteen Grow Lights are fragile and have been packed separately to ensure that they don't get damaged in transport. You need to locate four Grow Lights each into their holders at the top of each one of the four Light Shelves (sixteen lights in total). Insert the Grow Lights into their holders and gently twist the lights to lock them into position. Please refer to the diagram below for more information

Your Commercial Cultivator comes with sixteen Grow Lights.
Do not use UV rated lights



Commercial Cultivator

1. Twist & Pull To Release
Turn clockwise or anti clockwise to release or engage the grow light.

Electrical Connection

The Commercial Cultivator must be grounded. Urban Cultivator does not accept any responsibilty should this safety measure not be followed.

Electricity can be dangerous and an unsafe plug inserted into a power socket could result in a serious safety hazard. Do not connect the Commercial Cultivator via an extension cable.

Ensure that the plug is accessible after the Cultivator has been installed.

Running The Cultivator For The First Time

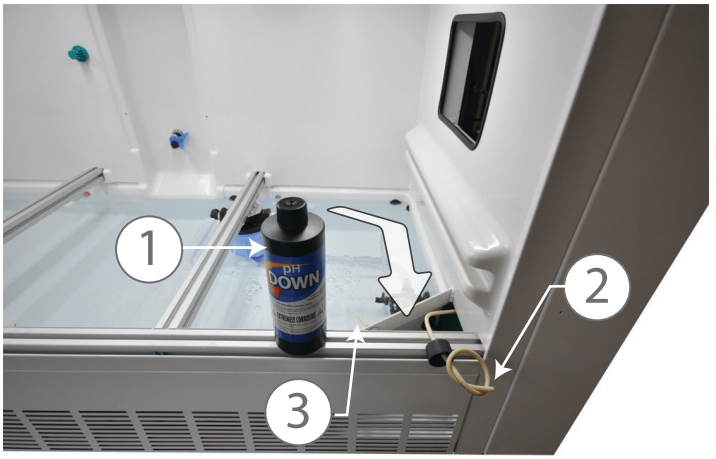
The Cultivator's clock, sensors and reservoir need to be set up before growing for the first time. To follow is a point to point procedure. The [1.Setup Menu] Password is **1821**.

1. Setup The Clock

- Press [MENU], [1.Setup Menu], then [1.Clock]. Set your "Date", "Time" and "Format".
- Press [MENU] and return to the setup menu.

2. Setup The pH Doser

- Remove the lower grow tray and reservoir cover to access the pH Bottle Shelf.
- Place the pH Down bottle into the shelf replacing its bottle cap with the one fixed to the Cultivator. See the photo below.



1. **pH Down Bottle. Remove the Cap and place the bottle into the hole.**
2. **Insert the tube into the pH Down Bottle and tighten the cap.**
3. Cultivators pH Dosing Line

- Press [MENU], [1.Setup Menu], [NEXT], [5.Reservoir], [PH Pump] then hold down [PRIME PUMP] until you see a single drop come out from the Cultivators pH Dosing Line. Refer to the photograph above.
- Press [Back] and then [MENU] to return to the "Reservoir Setup" screen.

⚠ **Ensure water lines are hooked up first (see page 13)**

3. Fill The Reservoir

- Press [MENU], [1.Setup Menu], [3.Main Water], [1.Fill] and [ACCEPT] to fill the reservoir.
- Once full, the Cultivators on board computer will maintain a constant water level.

4. Calibrate The pH Sensor

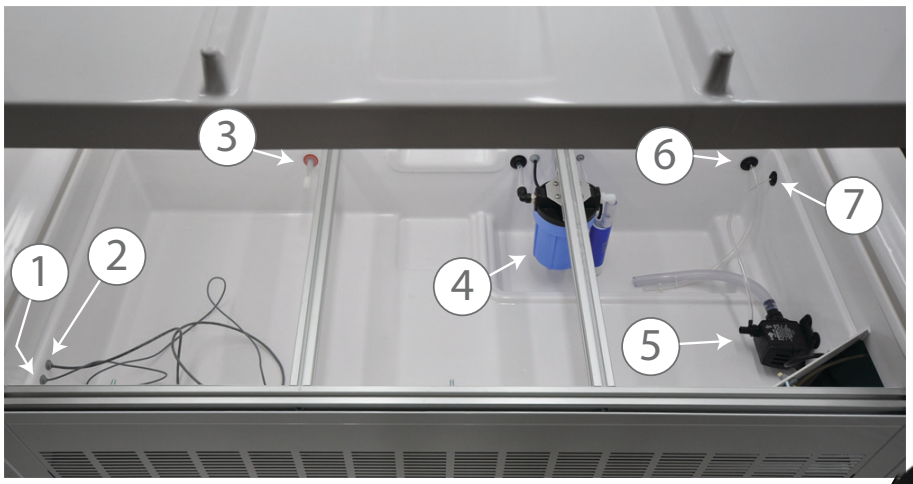
- Fill one cup of water, one cup of pH Buffer #4 and one cup of pH Buffer #7.
- Remove the sensor from the Reservoir, twist open its protective cap and swish it inside the water and gently dry using a cloth. Refer to the photograph on the next page.
- Now swish the pH Sensor inside the cup of pH #4 and let rest for thirty seconds.

- Press MENU, 1.Setup Menu, NEXT, 5.Reservoir, Sensor Cal, 1. pH 4 Cal and Y.
- Repeat the above steps using the pH Buffer #7 pressing 2. pH 7 Cal and Y.
- Use the suction cups to stick the pH sensor onto the Reservoir's back left corner wall.

⚠ Safely store the pH Sensor cap and use it to stop the sensor from drying out when the Cultivators Reservoir is empty. Do not let the pH Sensor dry out as it will void your warranty.

5. Calibrate The TDS (Total Dissolved Solids) Sensor

- Fill one cup of water and one cup of TDS 1000 Solution.
- Remove the sensor from the Reservoir, remove its black protective cap and swish the sensor inside the water and gently dry using a cloth. Refer to the photograph below.
- Now swish the TDS Sensor inside the cup of TDS 1000 Solution and let rest for thirty seconds.
- Press MENU, 1.Setup Menu, NEXT, 5.Reservoir, Sensor Cal, 3. TDS Cal and Y.
- Use the suction cups to stick the TDS Sensor onto the Reservoir's back left corner wall.



1. pH Sensor
2. TDS (Total Dissolved Solids) Sensor
3. Water Level Sensor
4. Filter & Water Pump
5. Water Mover Air Pump
6. Water Fill Line
7. Air Intake Line

Planting Your Herbs And Microgreens

The Cultivators default grow settings are appropriate for growing all the herbs and micro-greens listed on our Planting, Growing & Cultivation Table on page 21. Advanced users may want to customise these settings by referring to the "Customising The Growing Conditions For Each Level" section.

- Mix approximately 5-10 parts soil to one part water (depending on the moisture in your soil) stirring until the lumps are gone.
- Fill the Grow Inserts 1/2 to 3/4 full and level the soil without patting it down.
- Sprinkle your seeds onto the top soil with an even amount of space between the seeds. Refer to the Planting, Growing And Cultivation table for detailed information or watch our online tutorials at www.urbancultivator.net/videomanual.
- Place the planted Grow Inserts into the Grow Tray and run a Manual Water. Press MENU, 1.Setup Menu, type in your password then Enter. Press Levels, Level 1 and Water Now.
- Use the Humidity Domes with the air vents closed for two days.
- Close the Cultivator's door.
- After two days remove the Humidity Domes and wipe away the condensed water. If there is an established growth open the Humidity Dome's air vents and put them back onto the Grow Trays for one more day before removing the Domes for the remainder of the plants growing life.

When using humidity domes, lift the lid daily to ensure a fresh air exchange

Use the Humidity Domes and their adjustable air vents for germinating seeds. The domes increases temperature and humidity levels inside to help germinate the seeds.

Incubate new plants in the top Grow Tray and grow larger plants from the Bottom Grow Tray.

Mixing Nutrients

- Remove the Lower Grow Tray and Reservoir Cover.
- Add the correct amount of Nutrients into the 90 litre capacity Reservoir. Refer to the Nutrient Feeding Table on page 18 for more information.
- Insert the Reservoir Cover and Lower Grow Tray back into position. The Cultivator will automatically mix the nutrients and draw the water along with the added nutrients from the Reservoir during its next scheduled water cycle.

Add your chosen Grow Nutrients into the Reservoir. Make sure to follow the directions on the back of your chosen product. The Commercial Cultivator holds 90 litres of water inside its Reservoir.

Add nutrients to fresh water only.

Only add nutrients after at least one week of seed germination.

Nutrient Feeding Table

Week 1 Don't add nutrients	
Week 2 Add 2 cc's per litre	160cc's
Week 3 And Ongoing Add 4 cc's per litre	380cc's

Customising Growing Conditions For Each Grow Level

The Cultivators default grow settings are appropriate for growing all the herbs and micro-greens listed on our "Planting, Growing & Cultivation Table" on page 21. Advanced users can customise the growing conditions by following this point to point procedure.

- Press MENU, 1.Setup Menu, then 2.Levels.
- Select 1. Level 1. Input your desired;
  "Set Temperature" *is the particular Grow Level temperature setting.*
  "Water Schedule" *tells the Cultivator how many times to water a Grow Level over a certain period of time.*
  "Water Time (mins)" *is the total time that the Cultivator will pump water from its Reservoir to the Grow Level.*
  "Water Now" *waters the Grow Level.*
  "Light Schedule" *is the number of hours on against the number of hours off.*
  "Lights On Time (All Levels)" *sets the time at which the Grow Lights switch on.*
- Press Back once to set your settings and return to the "Select Level" section.
- Repeat the above for 2.Level 2, 3.Level 3 and 4. Level 4.
- Press MENU to return to the home screen.

Germinating is recommended on the top levels. Once plants develop they can be moved down as they get bigger. Refer to the "Growing & Cultivation Cycles" section.

Urban Cultivator

Top Growing Tips

Room Temperature And Humidity
Keep your room temperature between 60¼F - 78¼F (15¼C - 25¼C and humidity levels between 40% - 70%.

Keep Everything Clean
Keep your growing environment clean. Clean your Reservoir and Grow Trays every month and rinse out the filter inside the Reservoir and Grow Tray's.

Don't Overwater
Don't overwater especially at the beginning of the plants life as it may bring on mould and mildew.

Humidity Domes Help Germinate Plants
Use the Humidity Domes to increase temperature and humidity in the Grow Trays when germinating seeds. Keep the Domes on for the first two days after the seeds have been planted with the air vents closed. As your plants begin to germinate you may want to keep the Domes on with open air vents for one or two more days as your plants begin to germinate.

Use Proper soil or pads.
We highly recommend the soil brands Sunshine #4 or Premiere HP. You can use other mediums, such as our Sure to Grow white pads but we have found better results with soil.

Don't Add Too Much Nutrients
Overfeeding can cause damage to the plants listed in our Planting, Growing & Cultivation Table. Follow the Nutrient Feeding Table.

Restart After Fourteen Weeks
Most of the herbs and microgreens listed in our Planting, Growing & Cultivation Table should be re-sown and replanted after a maximum of fourteen weeks.

Keep pH Levels Between 5 - 7
Balancing your pH level at 5 is smart as it will increase throughout the week.

Sow Seeds A Little Heavy And Thin Out Young Plants
Pluck out young plants to allow others to grow and fill out. This is a great way to enjoy your Cultivator Every Day

Use Hydrogen Peroxide
If you accidentally keep your humidity domes on too long or overwater and develop unwanted bacteria, you can spray with Hydrogen Peroxide and water (30% HP – 1 Gal water).

Love Your Plants
Take time and care with your plants. Look at them, pick them up (for weight. If its light, water).

Planting, Growing & Cultivation Table

Herbs & Microgreens	Seeds* (Cups)	Cultivate (Weeks)	Ideal pH
Amaranth	1/8 to 1/16	2-8	6
Arugula	1/8 to 1/16	1-6	6.5
Basil	1/8 to 1/16	10	6.5
Bean Tendrils	1 to 1 1/2	1-4	6.5
Chamomile	1/8 to 1/16	2-10	6.5
Chives	1/8 to 1/4	1-10	7
Choi Sum	1/8 to 1/16	2-8	5.5
Cilantro	1/4 to 1/8	2-8	7.5
Dill	1/8 to 1/16	2-10	6
Lemon Balm Seeds	1/8 to 1/16	2-12	6.5
Lettuces	1/4 to 1/16	1-5	6.5
Marjoram	1/16 to 1/32	2-12	7
Mint	1/16 to 1/32	2-8	6.5
Mizuna	1/8 to 1/16	1-8	6
Mustard Greens	1/8 to 1/16	1-6	7
Nasturtium	1/2 to 1	2-12	7
Oregano	1/16 to 1/32	2-12	5.5
Pac Choi	1/8 to 1/16	2-10	6.5
Parsley	1/8 to 1/16	2-10	6.5
Pea Tendrils	1 1/2 to 2	1-4	6.5
Rosemary	1/16 to 1/32	2-12	7
Sage	1/16 to 1/32	2-12	6
Shiso	1/8 to 1/16	12-8	6
Shungiko	1/8 to 1/16	1-8	6
Sorrel	1/16 to 1/32	2-10	7
Spearmint	1/16 to 1/32	2-10	6.5
Spinach	1/2 to 1 1/2	2-12	7
Thyme	1/16 to 1/32	2-12	6.5
Tarragon	1/16 to 1/32	2-12	6.5
Tatsoi	1/8 to 1/16	1-6	6.5
Watercress	1/4 to 1/8	2-10	6.5
Wheatgrass	1 to 1 1/2	1-7	6.5

*Per Flat

The Cultivator's default Lighting Cycle and Watering Schedule are appropriate for growing all the herbs and microgreens listed here.

As you become more experienced you'll want to begin customising your growing conditions using the Control Panel to control the Cultivator's automated features.

If your seed isn't on the cultivation table, check UrbanCultivator.net or call your friendly Urban Cultivator Rep for advice.

- Fill the Grow Inserts (flats) half way to three-quarters full with Planting Soil or Sure To Grow Pads.
- Water once every four days.
- Keep lights on for eighteen hours and off for six.

The above is a recommendation only. Flats can be sown heavier or thinner.

You can sow heavy then thin out as the plants grow by plucking out patches allowing the other greens to fill out. This allows you to use greens from start to finish.

Maintenance

Cleaning The Grow Trays

Clean your grow trays between each harvest however you should immediately clean mould or unwanted organic matter.

Do not use any chemically damaging or unhealthy cleaning products such as bleach. Using chemical cleaning products may be toxic and could potentially erode the Grow Trays. You can use 30% Hydrogen Peroxide to clean the reservoir and water lines (1 tsp per gallon)

You should rinse out the filter in the reservoir on a monthly basis.

Cleaning The Reservoir

- Remove the bottom Grow Tray and Reservoir Lid.
- Press MENU, 1.Setup Menu, enter passcode, 3. Main Water, 4. Drain and ACCEPT.
- The Cultivator will start to drain the Reservoir so you can wipe it clean. This can take up to 30 minutes.
- Add your preferred cleaning agent (h2o2) into the Reservoir following the guidelines on the rear of the agents packaging. The Commercial Cultivator holds 90 litres of water.
- Once Clean, press MENU, 1.Setup Menu, 3. Main Water, 1.Fill and ACCEPT.
- Once the Reservoir has re-filled press MENU, 1.Setup Menu, 2.Levels, 1. Level 1 and Water Now so that the cleaning agent flows through the Cultivators piping system.
- Repeat the process for each Grow Tray; 2.Level 2, 3.Level 3 and 4. Level 4.
- Once the levels and reservoir are cleaned, press 3. Recycle then ACCEPT to remove the cleaning agent.

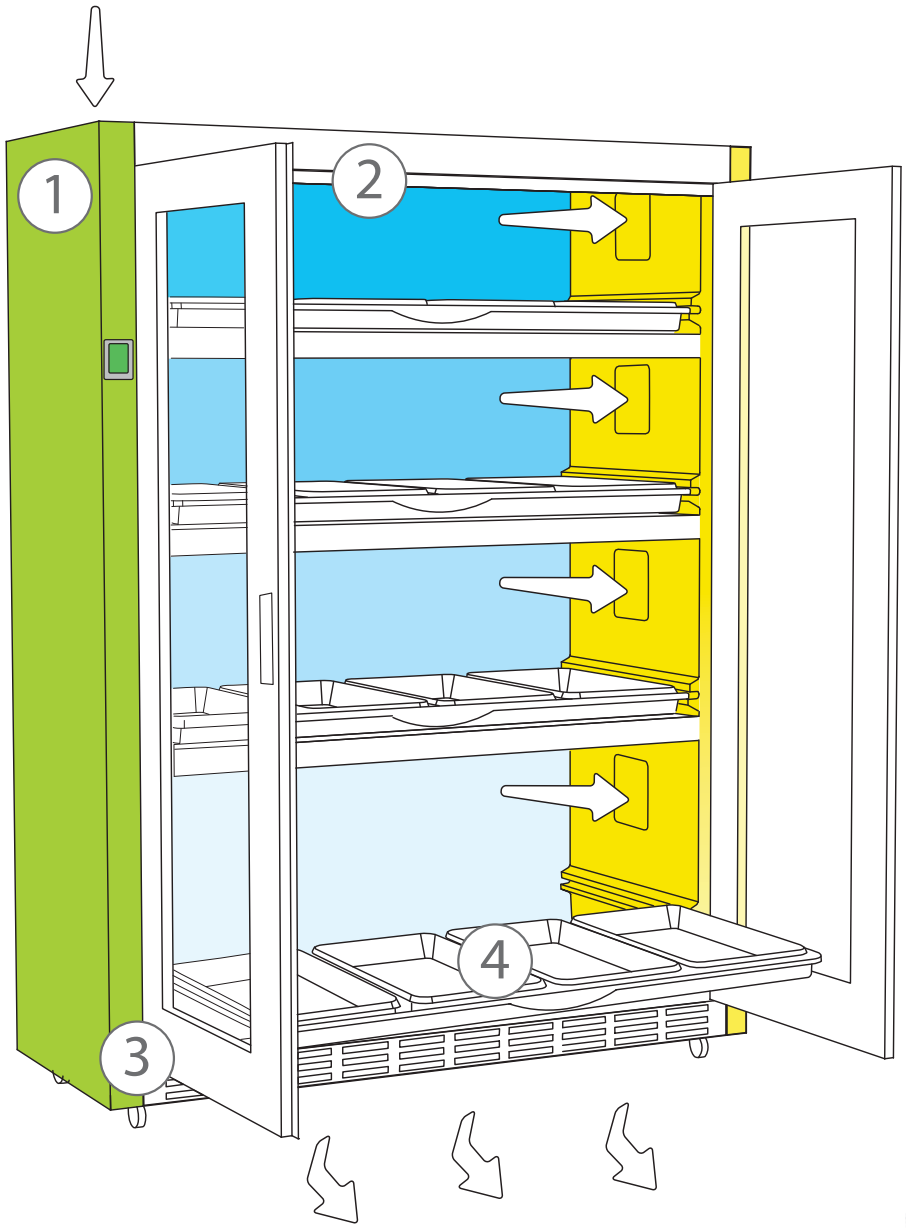
If you wipe clean the Reservoir do not knock the pumps, mis-align the Pipes and in particular the Sensors.

We recommend using a non-chlorine bleach purchased from a reputable environmentally conscience company. Please follow the quantity guidelines on its packaging.

Draining the reservoir sends water down and out from the Drain Hose. Water from your Commercial Cultivator is not for drinking and biological residues may still be present and could be harmful.

Urban Cultivator

Technical Specifications



1 Air Flow System

Arrows Show The Direction Of Air Flow

Ducting Located On This Side

Fan's Located On This Side

2 Full Spectrum Lighting System
Automated Lighting Schedules

3 Digital Feeding System
With pH Control And Nutrient Monitoring,
95 Litre Reservoir, 3/8 NPT Fittings To City Water In and Drain Out.

4 Grow Chambers & Slide Out Shelves
Four Grow Flats Per Shelf
Sixteen Flats Of Herb And Microgreens
Total Volume 40cf

Grow Level 1 (Top)
Most Suitable For Incubation

Grow Level 2
Most Suitable For Young To Teenage Plants

Grow Level 3
Most Suitable For Teenage To Mature Plants

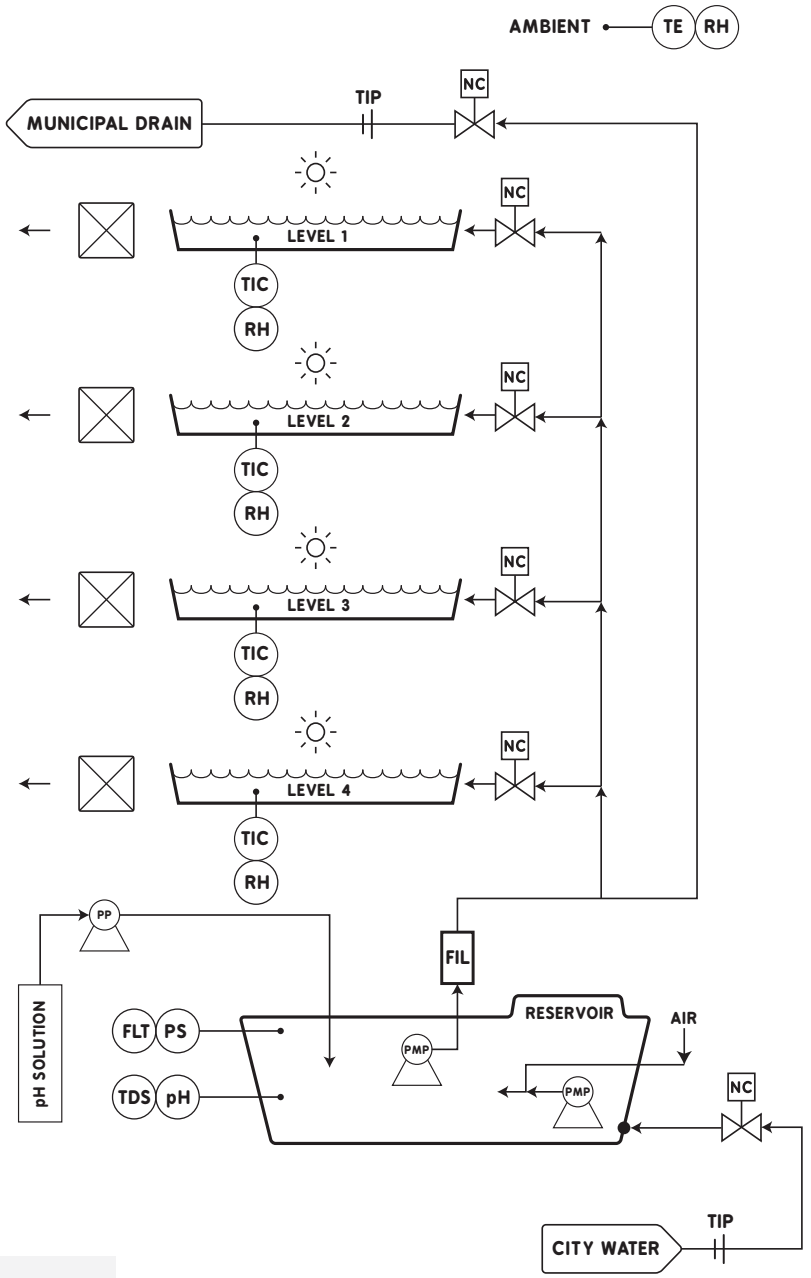
Grow Level 4 (Bottom)
Most Suitable For Mature Plants

MAX Draw 0.3 kWh per day. 10A Breaker

75% RH Based On An Average Rate Of 120CFM.

Dimensions
(a) 750mm or 29
(b) 1550mm or 61"
(c) 2007mm or 79"

Process & Instrumentation Diagram



LEGEND

TIP — TIE IN POINT

NC — NORMALLY CLOSED SOLENOID VALVE

AXIAL FAN

PP — PERISTALTIC PUMP

AP — AIR PUMP

PMP — PUMP

TIC — TEMPERATURE INDICATOR & CONTROL

TE — TEMPERATURE ELEMENT

RH — RELATIVE HUMIDITY SENSOR

FLT — FLOAT SWITCH

PS — PRESSURE SENSOR

pH — pH SENSOR

TDS — TOTAL DISSOLVED SOLIDS MONITORING

LIGHTS

SHV — SHUTTLE VALVE

FIL — FILTER

Urban Cultivator PHONE +1-877-352-0490 ADDRESS: UNIT 311 - 13060 80TH AVENUE SURREY, BC, CANADA V3W 3B2, CANADA.		DRAWN	ART	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MM TOLERANCE: N/A MATERIAL: VARIABLE FINISH: VARIABLE DRAWING SCALE: N/A DO NOT SCALE
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COMP. NUMBER	COMP. NUMBER	Q.A.		
COMPONENT	KITCHEN CULTIVATOR	FILE	KC_SCHEMATIC.AI	
DRAWING	PROCESS & INSTRUMENTATION DGM	VERSION	#002	
QTY	QTY			

PROPRIETOR & CONFIDENTIAL
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Frequently Asked Questions

What is the password for the child lock screen?
KC – Enter and the Down Arrow key simultaneously for 3 seconds.
CC - 1821 or your own personal 4 digit password.

How often should I do maintenance on my KC or CC?
In either the KC or CC you should wet/dry shop vacuum or wipe down reservoir and levels every 6-8 weeks. Ensure to check filters and pumps (show pics) for seed and soil build up.

Is my Cultivator pre-.programmed?
Yes, it comes pre-programmed for an average growing environment and an average for all plants needs. To set it to your environment or specific plant's needs check the manual, call our support line or check uc.net

When and should I use plant nutrients?
Most plants that you grow in here have a short lifespan and don't need much nutrients. Anything with a 7-10 day life cycle you don't need nutrients unless you are harvesting re-growth. You can feed anything after week 2. 20 cc's for week 2 in KC and 190 cc's for week 2 in the CC. 40 cc's each week after week 3 in KC and 380 cc's each week after week 3 in CC.

How many flats will I get out of one of my seed containers?
You will get 3-6 flats out of every Urban Cultivator seed containers. You can plant heavy and thin out young plants and use as you go or plant more flats thinner and let them grow out before you harvest. Try using the shaker to sow seeds evenly.

How much soil should I put in my flats?
You should fill each flat ½ to ¾ with our recommended potting soil (Sunshine #4 and Premiere HP). ½ full for shorter life cycle (1-2 weeks) plants such as; Pea Tendrils, Wheat Grass, Sunflower, Broccoli, etc. Fill your flat ¾ full when planting longer life cycle (2-14 weeks) plants such as; Classic Herbs (basil, oregano, etc), Arugula, Beet Tops, etc.

Do I mix in my seeds or cover them with dirt?
We have found great results by covering the newly sown seeds with a light dusting of soil that's been shifted through a regular strainer. The finer soil spreads nicely and makes a protective blanket during germination. Sow your seeds over the dirt, then give them a good spray of water from a spray bottle, next cover with the sifted dirt and then another light spraying of water just to moisten the top blanket. Be careful not to spray too much or too close and wash off the thin dirt blanket.

Frequently Asked Questions (cont'd)

What do I do if my water mover isn't working in my UC Commercial?
Check the water mover by insuring the level of water is above the outtake of the water mover then clean any debris/seeds out of the intake strainer and insure the pump is on and vibrating. If there is still no movement of water and air bubbles, pull off the small clear air intake line and unscrew the out take fitting. Clean out any debris/seeds inside the fitting and re-screw back onto the pump and re-insert the clear tube.

What do I do if my air stone isn't aerating in the UC Residential?

Insure that air pump is in on by going through your menu options. Take your bottom grow tray out and insure there is more then 50% of water inside. Pull air stone up and out of the reservoir and release it from the clip. Insure the air stone is still intact. Replace if it is broken.

Does my water reservoir keep itself filled?
Yes, if you received your Cultivator with City Hook-up capabilities and have it plumbed in, then it is pre-programmed to exchange the water in the reservoir once a week.

What do I do if my reservoir won't exchange?
Remove connections on main water pipe and ensure there is no blockage. Return fitting on. Open large blue pump by unscrewing and check to see filter isn't blocked with seeds or dirt.

What do I do if my level won't water?
You can wait a few minutes (3-10) as some times the prime needs to auto adjust. If you don't want to wait or if it still isn't watering, pull the clear hosing that connects to the black fitting, by pushing the release on the circular black fitting. Take the clear hose and place it under the water and fill the line the best you can, then place clear hose back into the black circular fitting and it will lock in.

What should my lighting schedule be?
We have pre-programmed our lighting schedules for most herbs, micro greens, lettuces, etc, which is 18 hours light and 6 hours dark. If you wish to grow cherry tomato's or peppers or other plants that require a fruiting schedule, you can easily change your light schedule to 12 hours on and 12 hours off.

How often should I change my bulbs?
For maximum plant growth, we recommend you change your bulbs every 6 months.

Service And Spare Parts

Please call our toll free number +1 877 352 0490 or e mail support@urbancultivator.net if you think there is a problem with your Commercial Cultivator.

Customer Care

In the event that your Commercial Cultivator requires service, or you wish to purchase plant supplies and spare parts please call us toll free on +1 877 352 0490 or e mail support@urban-cultivator.net.

Please provide the following information when you are calling to arrange for an engineer or return of goods:

- Your name, address, zip number or postal code.
- Your contact telephone number and best time to be reached.
- Clear and concise details of the problem.
- The purchase date and name of the sales representative who sold you the Commercial Cultivator.

Standard Guarantee Conditions

Urban Cultivator Limited guarantee that if within 36 months of the date of purchase this Commercial Cultivator appliance or any part thereof is proved to be defective due to faulty workmanship or materials, we will, at our option repair or replace the same FREE OF CHARGE for labour, materials or carriage on condition that:

- The Commercial Cultivator has been correctly installed and used only on the electricity supply stated on the rating plate.
- The Commercial Cultivator has been used in accordance to the manufacturer's instructions.
- The Commercial Cultivator has not been tampered with by any person not authorised by us.
- All service work under this guarantee must be authorised by Urban Cultivator.
- Any appliance or defective component shall become the property of Urban Cultivator.
- This guarantee is in addition to your statutory and other legal rights.